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OCTOBER 4, 1955

P R O P O S A L

FOR A TEST STUDY ON

TWO MECHANICAL TIMING DEVICES

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This proposal concerns the testing of 30 each of two clockwork timers, the one being a 45-minute watch-type mechanism with electrical contact trigger, the other a conventional 12-hour alarm clock adapted to release a spring-loaded firing pin.

The scope of the program involves testing of the submitted units, recommendations for specifications and possible alterations, and submission of a comprehensive report.

Under the testing program, the accuracy of the devices will be checked both at elevated and low temperatures, after adjustment under ambient conditions. The devices will further be exposed to high humidity, vibration, drop and jumble tests, and retested for functioning at ambient conditions only. It will also be determined whether the devices will be non-releasing during any of the mechanical tests. It is understood that all mechanical exposure tests are to be performed in packaged conditions.

The details of each test as to temperature limits, mechanical conditions and necessary deviations from MIL standard tests, will be worked out in detail in cooperation with the Project Officer.

The program is estimated to require one technician full time for a period of three months. One professional man will guide the program at an engineering effort amounting to one-third of the three months period. It is also foreseen that some shop labor will be required, especially in connection with providing equipment for mechanical tests.

Monthly progress reports will be only status reports and all test results and other technical details will be reported in the comprehensive, final report.

The work will be performed at Station One.

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CONFIDENTIALCOST ESTIMATEMaterials and Purchased Items

Tools, Jigs, Fixtures, Test Materials	\$ 250.00
Instrumentation	250.00
Travel and Miscellaneous	250.00

Labor

175 Engineering Hours at \$3.50	612.50
500 Technician Hours at \$2.50	1,250.00
120 Shop Hours at \$2.50	300.00
Overhead, 50%	<u>1,081.25</u>
Sub Total	\$3,993.75
Fee, 8%	<u>319.50</u>
TOTAL	\$4,313.25

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